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F762Ins Suppl. Reserve

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
HENRY S. GRAVES, FORESTER

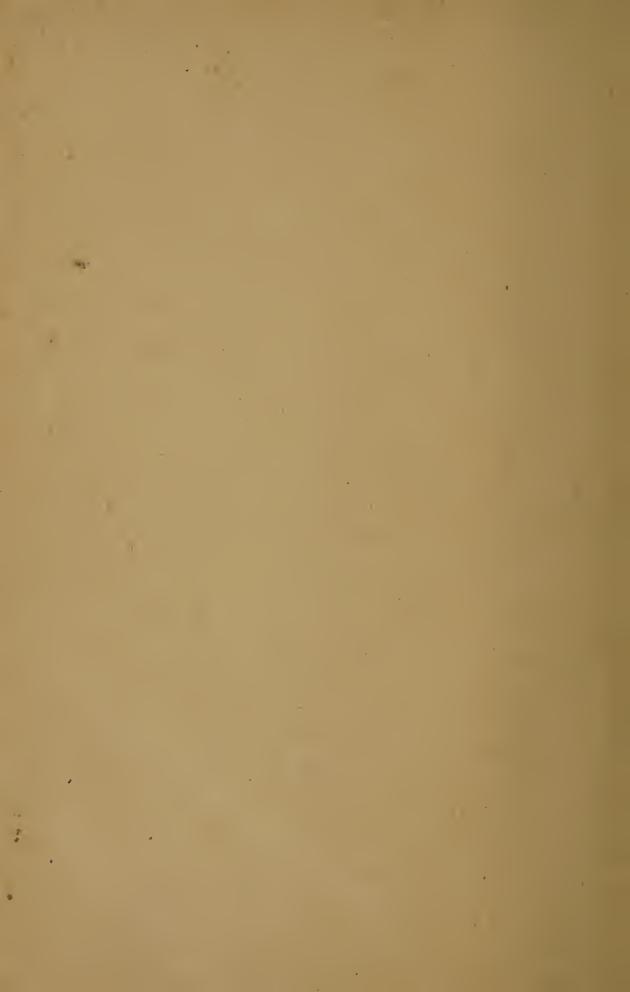
SIGNS, SYMBOLS AND COLORS

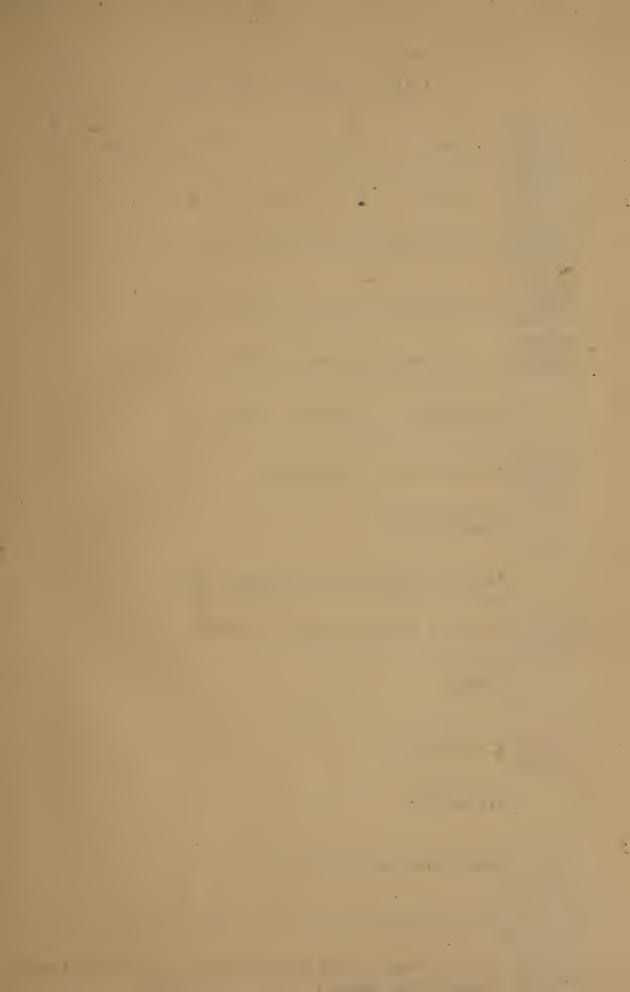
SUPPLEMENT

TO THE

INSTRUCTIONS FOR MAKING
FOREST SURVEYS
AND MAPS

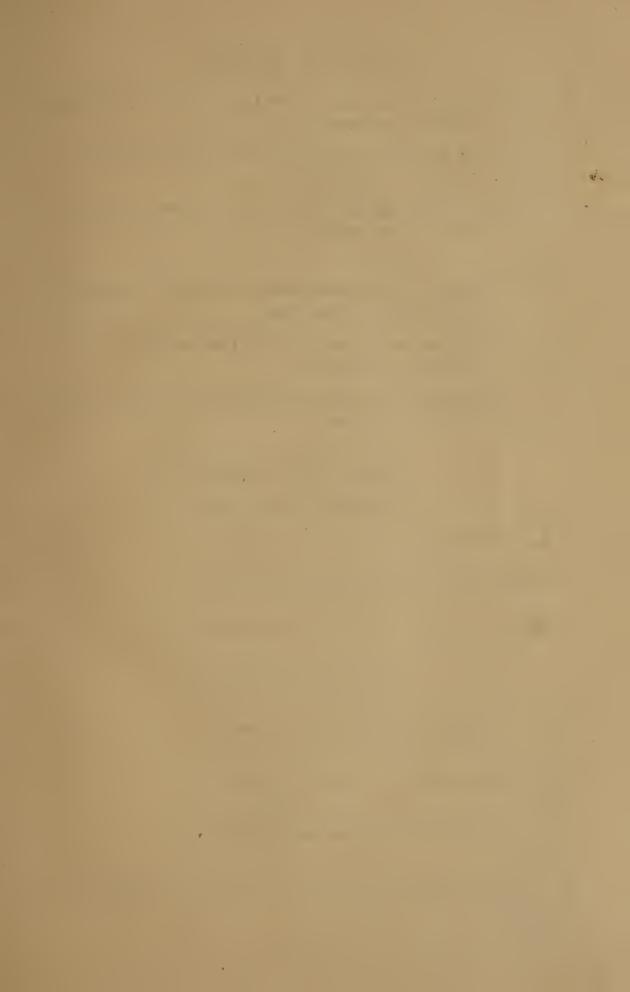
PREPARED IN THE OFFICE OF GEOGRAPHY
1912





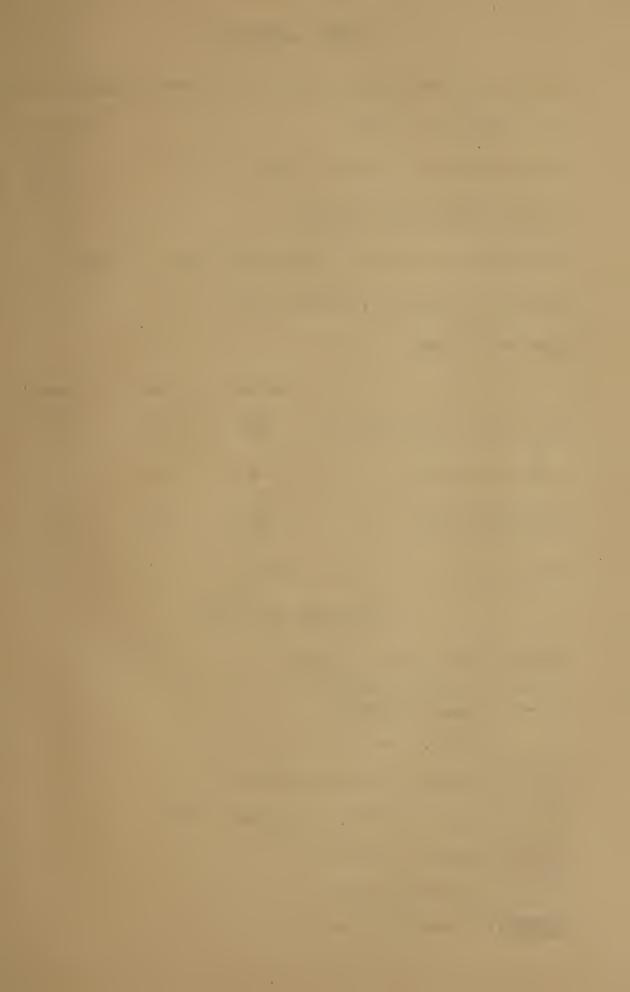
LAND CLASSIFICATION

4	Timberland, less than 2 MBF per acre
	Timberland, 2 to 5 MBF per acre
	Timberland, 5 to 10 MBF per acre
	Timberland, 10 to 25 MBF per acre
	Timberland, 25 to 50 MBF per acre
	Woodland, cordwood, poles, etc.
	Chaparral or brushland
	Sagebrush
	Grassland, parks, meadows, open
	Barren, above timber line, etc.
1:00	Desert
	Cultivated
	Irrigated
	Burn, not restocking
	Burn, scattering trees or restocking
	Burn, forest cover established (The color indicates the stand)



LOGGING LEGEND.

LOGGING LEGEND.	
Old cutting, less than 1/3 of the merchant timber removed	table
Old cutting, 1/3 to 2/3 of the merchantable timber removed	
Old cutting, ¾ to all of the merchantable timber removed	9
Timber sales, less than 1/3 of the mercha	nt-
Timber sales, 1/3 to 2/3 of the merchantab timber removed	le
Timber sales, 2/3 to all of the merchantal timber removed	ole
PLANTING LEGEND	
For small scale maps	
Experimental nursery (location)	
Permanent nursery (location)	
Location of Silvical experiments	
For large scale maps	
Experimental nursery (area)	
Permanent nursery (area)	
Forested by natural seeding	
For plant maps	ing
Forested by planting	



FIRE LEGEND

Cooperative watershed bo	undary (V	Veeks law	
Fire district boundary			
State forester or similar of	officer		₩
District chief headquarter	S		\otimes
State, county, or town fire	warden l	neadquart	ers 🗶
Deputy fire warden headq	uarters		+
Patrolman camp			_
	Federal	State	Private
Patrolman headquarters			0
Lookout station	A	A	Δ
Tool supply box	É	6	6
Patrol route		-11-11-11-11	-1-1-1-1-1

GRAZING LEGEND

Supervisor's division
Ranger's division
Grazing districts
Open for all stock
Open for cattle and horses only
Open for sheep and goats only
Closed for all stock
Lambing grounds
Driveways for stock



ALIENATION

Initial letter symbols, showing the status of land while passing from Federal ownership.

- AC Agricultural college scrip
- **CE** Cash entry (including scrip location)
- CC Classified coal land
- CD Coal declaratory statement
- **CL** Coal entry
- CF Coal final certificate
- **CP** Coal patent
- DE Desert entry, original
- DF Desert entry, final certificate
- DP Desert entry patented
- HE Homestead entry, original
- HF Homestead, final certificate
- **HP** Homestead patented
- IA Indian allotment pending
- IP Indian allotment approved or patented
- LS Forest lieu selection pending
- LA Forest lieu selection approved
- LP Forest lieu selection patented
- MC Mineral classification
- ML Mineral location
- MS Mineral survey
- MA Mineral application
- ME Mineral entry
- MP Mineral patent
- MW Military bounty land warrant
- RG Railroad grant lands, surveyed and unsurveyed
- RR Railroad selection list pending
- RP Railroad selection approved or patented
- RI Railroad indemnity pending
- RW Reclamation Service withdrawal
- RC Reconveyance pending
- RA Reconveyance accepted
- RS Reservoir site pending
- RF Reservoir site approved
- \$\$ State selection (including school) pending
- SA State selection certified or approved
- \$B School section made basis for indemnity
- SP School section indemnity approved or patented
- SH Small holdings
- TA Timber application
- TS Timber and stone entry pending
- TP Timber and stone patent
- TE Townsite entry



ALPHA-NUMERIC SYMBOLS FOR TREE SPECIES

These symbols, properly grouped, indicate the composition, character, and stand of any forest, and therefore denote the *Forest Tree Types* to which it may be assigned. Thus:

P47=Pure stand,	Yellow Pine 7	MBF per acre
D1 ₂₂ T6 ₉ H6 ₄ =	Douglas Fir22	MBF per acre
Mived stand	Red Cedar 9	MBF per acre
Mixed Starra	Western Hemlock _ 4	MBF per acre
	Sugar Pine10	
$P3_{10}O5_{8}Q1_{3}=$ Mixed stand	Incense cedar 8 tele.	•
Mixed Stand	Black Oak 3 (cords per acre

These symbols follow, as closely as possible, a carefully devised scheme which, if understood, will make it much easier to memorize them. The scheme is as follows:

Letters and one numeral denote principal western species.

Letters and two numerals usually denote eastern species.

The first symbol, a letter, always denotes the genus. The last symbol, a numeral, usually denotes some characteristic of the species. Thus:

0 = Black	5 = Highland
I = Red	6 = Lowland
2 = White	7 = Dryland
3 = Blue, or gray	8 = Wetland
/ \/ !!	

 $\mathbf{4} =$ Yellow, or sugar $\mathbf{9} =$ Others, and conflicts

When there are three symbols, the second symbol, a numeral, always denotes the geographic distribution of the species. Thus:

West of the 100° meridian—

0 = Pacific Coast forests

I = Rocky Mountain forests

2 = Pacific and Rocky Mountain forests

East of the 100° meridian—

3 = Northern forests

4 = Central forests

5 = Southern forests

6 = Northern and Central forests

7 = Central and Southern forests

8 = Northern, Central, and Southern forests

9 = Conflicts. General distribution. Very local



CONIFERS

Po	Pinus contorta	Lodgepole Pine
1	(murrayana) flexilis	Limber Pine
	monticola	Western White Pine
3		Sugar Pine
4		
*	var. scopulorum)	Western renow i me
5	coulteri	Coulter Pine
6	sabiniana	Gray Pine
7	jeffreyi	Jeffrey Pine
8	radiata	Monterey Pine
9		Knobcone Pine
	balfouriana	Foxtail Pine
14		Apache Pine
	arizonica	Arizona Pine
	chihuahuana	Chihuahua Pine
	cembroides	Mexican Pinon
	divaricata	Jack Pine
	resinosa	Red Pine
	strobus	White Pine
52	glabra	Spruce Pine
54	palustris	Longleaf Pine
56	serotina	Pond Pine
58	heterophylla	Cuban (Slash) Pine
59	clausa	Sand Pine
74	echinata	Shortleaf Pine
76		Loblolly Pine
78	virginiana	Scrub Pine
85	rigida	Pitch Pine
87	pungens	Table-mountain Pine
95		Bristle-cone Pine
	strobiformis	Mexican White Pine
5		White-bark Pine
6 7		Torrey Pine
9	edulis	Pinon Single lost Pinon
	monophylla Abies magnifica (inc.	Single-leaf Pinon Red Fir
7.1	shastensis)	Ned 1 II
2	concolor	White Fir
4	nobilis	Noble Fir
5	lasiocarpa	Alpine Fir
6	grandis	Grand Fir
7	arizonica	Arizona Cork Fir
8	amabilis	Amabilis Fir
9	venusta	Bristle-cone Fir

CONIFERS—Continued

	CONTRERS	S—Continued
35	balsamea	Balsam Fir
	fraseri	Fraser Fir
	Picea engelmanni	Engelmann Spruce
	parryana	Blue Spruce
	breweriana	Weeping Spruce
6		Sitka Spruce
30	mariana	Black Spruce
	canadensis	White Spruce
	rubens	Red Spruce
DI	Pseudotsuga taxifolia	
	macrocarpa	Bigcone Spruce
H5	Tsuga mertensiana	Mountain Hemlock
	heterophylla	Western Hemlock
	canadensis	Hemlock
95	caroliniana	Carolina Hemlock
RI	Sequoia semper-	Redwood
	virens	
5	washingtoniana	Bigtree
C5	Chamaecyparis noot-	Yellow Cypress
•	katensis	
6	lawsoniana	Lawson Cypress
52	thyoides	Southern White Cedar
	Thuja plicata	Western Red Cedar
	occidentalis	Northern White Cedar
	Taxodium distichum	- ·
	Larix Iyallii	Alpine Larch
	occidentalis	Western Larch
	laricina	Tamarack
	Libocedrus decurrens	
K5	Cupressus macnab-	Macnab Cypress
6	macrocarpa	Monterey Cypress
7	·	Arizona Cypress
8	goveniana	Gowen Cypress
9	glabra	Smooth Cypress
	Juniperus utahensis	Utah Juniper
2	pachyphloea	Alligator Juniper
4	occidentalis	Western Juniper
5	sabinoides	Mountain Juniper
7	californica	California Juniper
9	monosperma	One-seed Juniper
10	flaccida	Drooping Juniper
25	scopulorum	Rocky Mountain Red Cedar
51	barbadensis	Southern Red Cedar



CONIFERS—Continued

57 pinchoti81 virginianaPinchot JuniperRed Cedar

95 communis Dwarf Juniper

BROADLEAFS

Q0 Quercus chrysolepis Canyon Live Oak

I californica California Black Oak

2 lobata Valley Oak

3 douglasii
California Blue Oak

4 garryana Garry Oak

5 wislizeni Wislizenus Oak

6 agrifolia California Live Oak
07 dumosa California Scrub Oak

7 gambelii Gambel Oak

8 densiflora California Tanbark Oak

9 engelmanni Engelmann Oak

09 pricei Price Oak 10 emoryi Emory Oak

12 arizonica Arizona White Oak

13 oblongifolia Blue Oak

15 undulata Rocky Mountain Scrub Oak

Q16 toumeyi Toumey Oak
17 hypoleuca Whiteleaf Oak
19 reticulata Netleaf Oak

44 acuminata Chinquapin Oak

47 leana Lea Oak 48 palustris Pin Oak

48 palustris49 heterophyllaPin OakBartram Oak

50 catesbaei Turkey Oak 51 texana Texan Oak

52 breviloba Durand Oak

53 brevifolia54 virginiana54 Live Oak

55 georgiana Georgia Oak 56 chapmani Chapman Oa

56 chapmani Chapman Oak58 nigra Water Oak

59 myrtifolia Myrtle Oak 61 rubra Red Oak

62 platanoides Swamp White Oak

65 macrocarpa Bur Oak

66 imbricaria68 prinusChestnut Oak

70 pumila Barren Oak71 digitata Spanish Oak

72 minor Post Oak



BROADLEAFS—Continued

	DICOLDEGIL	D · Oomandaa
76	michauxii	Cow Oak
78	lyrata	Overcup Oak
79	phellos	Willow Oak
80	-	Black Jack
81	coccinea	Scarlet Oak
	alba	White Oak
84		Yellow Oak
85	prinoides	Dwarf Chinquapin Oak
95	breweri	Brewer Oak
	morehus	Morehus Oak
	laurifolia	Laurel Oak
E00	Juglans californica	California Walnut
	rupestris	Mexican Walnut
	cinerea	Butternut
	nigra	Black Walnut
146		Shellbark (Hickory)
47	odorata	Small Pignut (Hickory)
49		Pecan (Hickory)
58	•	Nutmeg Hickory
78		Water Hickory
80	· · · · · · · · · · · · · · · · · · ·	Pignut (Hickory)
82		Mocker Nut (Hickory)
85	ovata	Shagbark (Hickory)
88	minima	Bitternut (Hickory)
189	Castanea dentata	Chestnut
U65	Ulmus racemosa	Cork Elm
	alata	Wing Elm
86	pubescens	Slippery Elm
92	americana	White Elm
M2	Acer macrophyllum	Oregon Maple
5	glabrum	Dwarf Maple
13	rubrum	Red Maple
82	saccharinum	Silver Maple
84	saccharum	Sugar Maple
89	negundo	Boxelder
Wo	Populus trichocarpa	Black Cottonwood
2	fremontii	Fremont Cottonwood
5	tremuloides	Aspen
7	angustifolia	Narrowleaf Cottonwood
67	_	Largetooth Aspen
78	_	Swamp Cottonwood
94	deltoides	(Common) Cottonwood
96	balsamifera	Balm-of-Gilead
FI	Fraxinus pennsýl-	Red Ash

vanica



BROADLEAFS—Continued

6 oregona8 lanceolata43 quadrangulata58 caroliniana60 nigra

82 americana

G71 Liquidambar styraciflua **W82** Liriodendron tulipifera

Z82 Tilia heterophylla

88 pubescens89 americana

Y20 Betula occidentalis

25 fontinalis32 populifolia64 lutea

71 nigra 84 lenta

89 papyrifera

V86 Fagus atropunicea

Oregon Ash Green Ash Blue Ash Water Ash Black Ash White Ash Red Gum Tulip Poplar

White Basswood Downy Basswood

Basswood

Western Birch
Mountain Birch

White Birch Yellow Birch River Birch Sweet Birch Paper Birch

Beech

FIRST SYMBOLS, WHICH MAY BE USED FOR UNIMPORTANT GENERA

a Alnusc Celtisd Diospo

d Diospyrose Aesculis

f Persea

g Gleditsia h Mohrodendron

i llex

j Gymnocladus k Castanopsis

I Planeram Morusn Nyssa

Neo-washingtonia

p Prunus

q Rhododendron

r Robinia s Salix

t Platanus

Umbellularia

v Magnoliaw Swieteniax Toxylon

y Yucca z Sabal Alder

Hackberry Persimmon Buckeye Bay

Locust Silverbell Holly

Coffee tree Chinquapin Planer tree Mulberry

Gum Palm

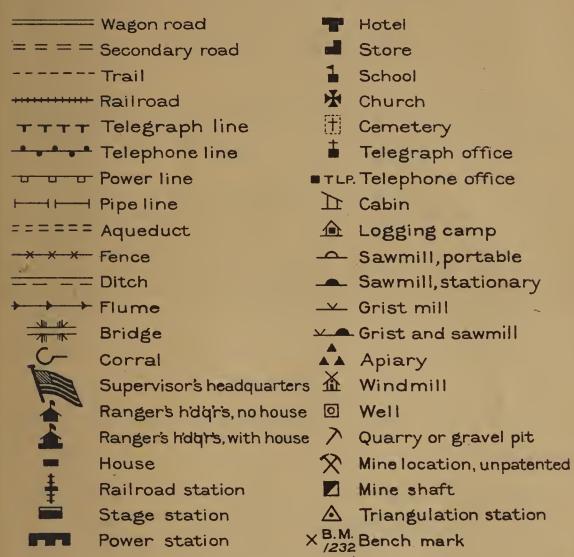
Plum. Cherry Rhododendron

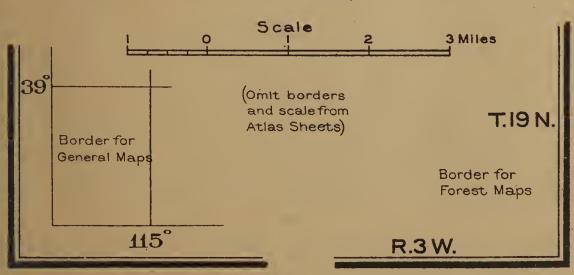
Locust
Willow
Sycamore
Laurel
Magnolia
Mahogany
Osage Orange

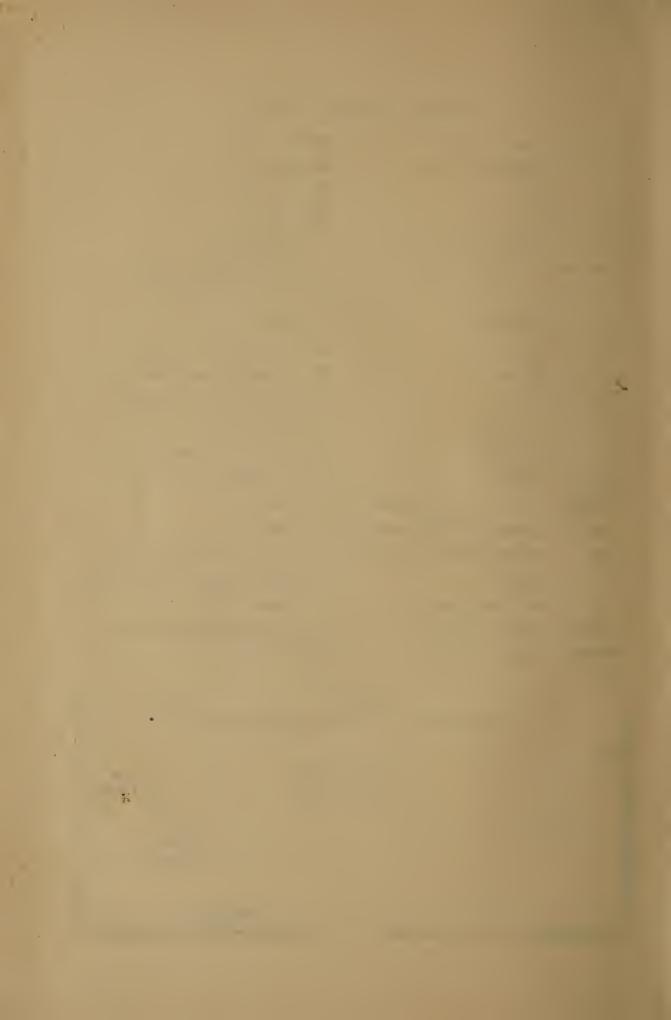
Yucca Palmetto



CONVENTIONAL SIGNS







LETTERING.

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 123456789

(topography)

UPPER CASE USED FOR TITLES MOUNTAIN RANGES, STATE NAMES, TOWNSHIP AND RANGE NUMBERS, GRANTS, AND RESERVATIONS, ALPHANUMERIC SYMBOLS.

Upper and Lower Case for Peaks, Valleys, Islands, Capes, etc., Meridians and Parallels, Legends and Scales.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z abcdefghijkImnopqrstuvwxyz 123456789

(culture)

UPPER CASE FOR RAILROADS, ROADS, TELEPHONE LINES, AND OTHER MEANS OF COMMUNICATION.

Upper and Lower Case for Other Culture.

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz 123456789

(settlement)

UPPER CASE FOR CITIES, STATE, AND COUNTY BOUNDARIES.

Upper and Lower Case for Towns, Villages, Post Offices.

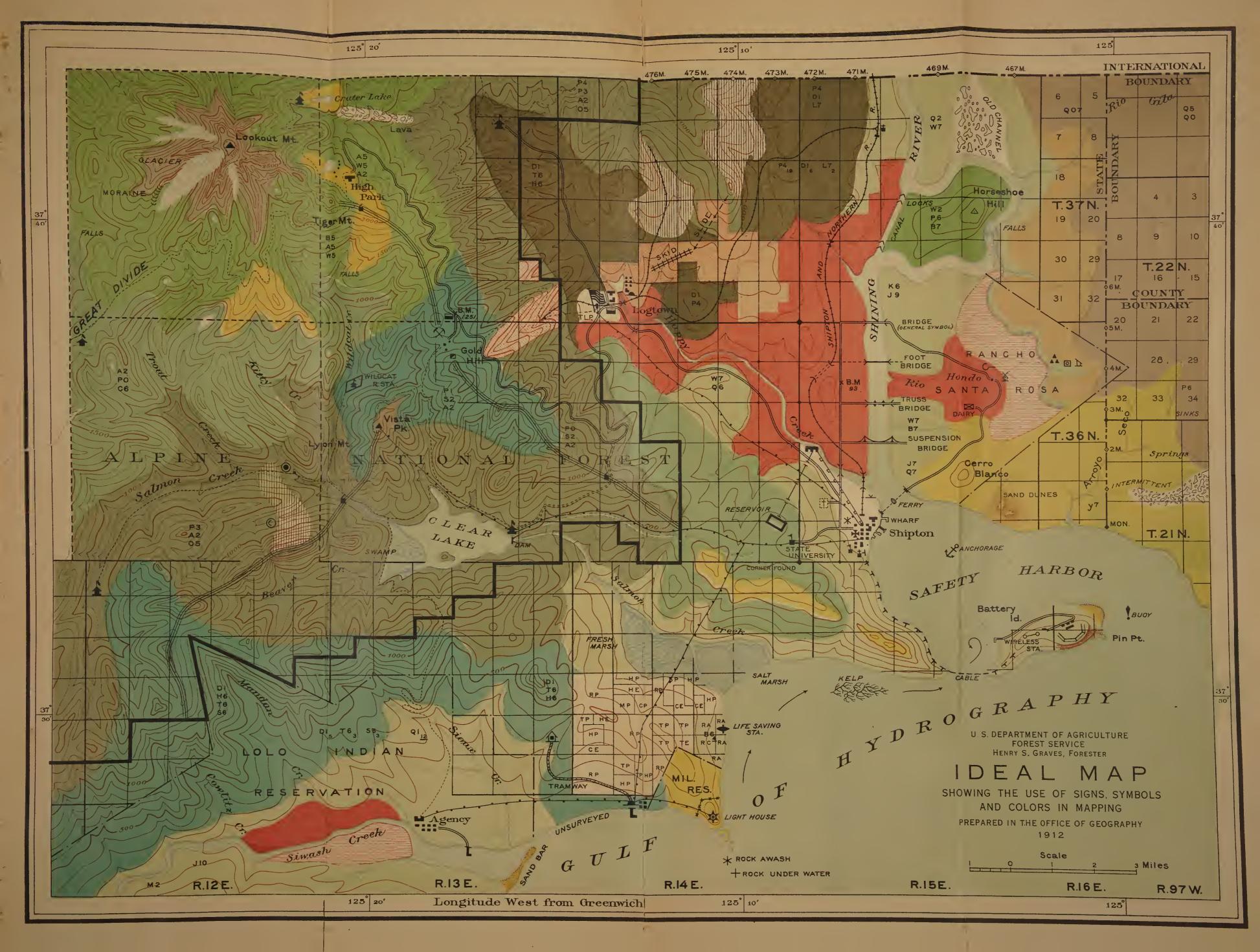
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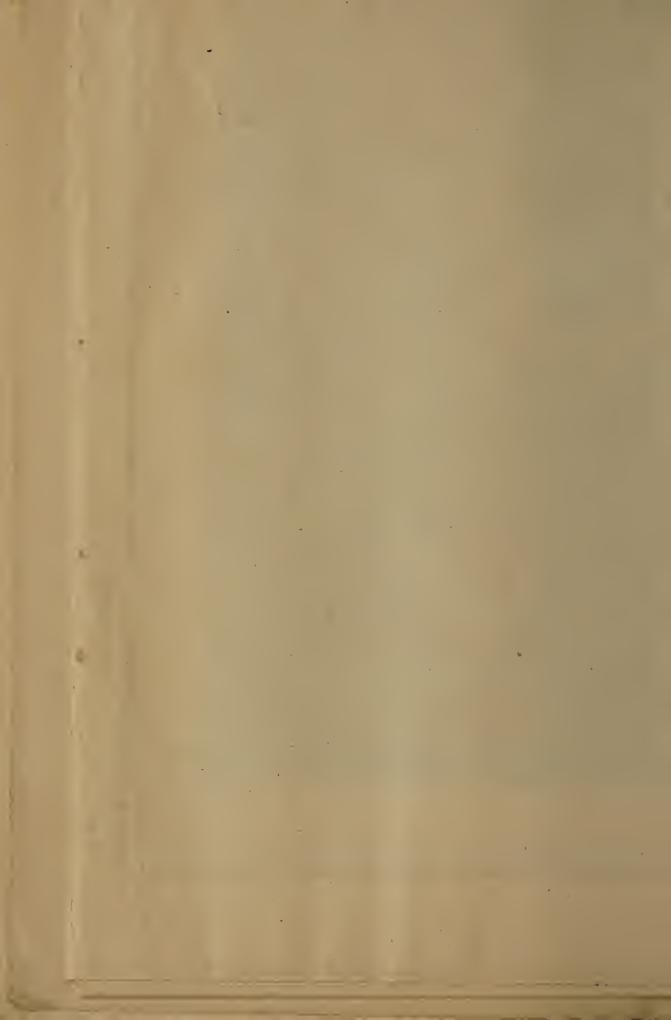
(water)

UPPER CASE FOR OCEANS, LARGE RIVERS, LAKES, ETC.

Upper and Lower Case for Small Rivers, Creeks, Springs, Marshes, Glaciers, Canals, Ditches, etc.







Form 172		F7629 TITLE
	G)R

